

# New product release

## 1. Certified for Elemental composition

Cat No	Material	Pack	% Carbon*	U (%)	% Nitrogen*	U (%)	% Sulphur*	U (%)
B2150	Sediment (High Organic)	30g	6.5	0.2	0.50	0.01	1.0	0.01
B2152	Soil (Low Organic)	30g	1.5	0.02	0.2	0.005	0.05	0.006
B2154	Protein (Casein)	30g	47.0	0.35	13.5	0.12	0.9	0.11
B2156	Wheat flour	30g	39.5	0.26	1.5	0.1	0.1	0.02
B2158	Sorghum flour	30g	41.5	0.13	1.5	0.03	0.1	0.02

\* **Note:** typical values shown. Actual values vary slightly from batch to batch; true values are shown on the certificate of analysis provided.

Sorghum, Wheat and High Organic sediment carbon and nitrogen values were determined versus NIST acetanilide 141d

Protein and Low Organic content soil carbon and nitrogen values were determined versus NIST cystine 143d

Sorghum, Wheat, Low Organic soil and Protein sulphur values were determined versus NIST rice flour 1568a

High Organic sediment sulphur values were determined versus NIST cystine 143d



## 2. Certified for Isotope data and Elemental composition

<i>Cat No</i>	<i>Material</i>	<i>Pack</i>	$\delta^{13}C_{V-PDB}$ ‰*	<i>RSD</i> ‰	<i>U</i> ‰	$\delta^{15}N_{AIR}$ ‰*	<i>RSD</i> ‰	<i>U</i> ‰
B2151	Sediment (High Organic)	5g	-26	0.04	0.13	+5	0.09	0.19
B2153	Soil (Low Organic)	5g	-28	0.02	0.11	+7	0.07	0.15
B2155	Protein (Casein)	5g	-27	0.04	0.13	+6	0.03	0.08
B2157	Wheat flour (C3)	5g	-27	0.04	0.13	+3	0.08	0.17
B2159	Sorghum flour (C4)	5g	-14	0.08	0.19	+2	0.07	0.15

\* **Note:** typical values shown. Actual values vary slightly from batch to batch; true values are shown on the certificate of analysis provided.

For certified Elemental composition values please refer to the data on the reverse side.

For 13C analyses, samples were run versus the IAEA reference IAEA-CH-6 with an accepted value of -10.43 ‰ versus the primary international reference standard of V-PDB (Vienna PeeDee Belemnite).

For 15N analyses, samples were run versus the IAEA reference IAEA-N-1 with an accepted value of +0.40 ‰ versus the primary international reference standard of Air.

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